SBS® Connectors - up to 110 amps



Touch Safe Interface

circuit interruption (hot plugging).

threatening.

- Can safely be used in through panel applications
- Minimizes potential contact with live circuits per IEC 60950

The patented SBS® connector family is designed to

provide high power in a compact ergonomic housing with protection against accidental contact with live circuits. This is of particular importance in applications where

DC voltages exceed 30 volts and can be health

Wire-to-wire and wire-to-board configurations both

provide power contacts rated up to 110 amps. The

SBS®75X offers up to 4 mate-last break-first auxiliary power / signal contacts rated up to 20 amps. The SBS®75G features a third first-mate last-break ground or power contact. All contact positions are rated for

• Wire-to-Wire and Wire-to-Board Configurations Allows one connector to meet multiple needs

Ground or Auxiliary Positions Integrated into the **One Piece Housing**

Meets all connection requirements in one compact connector housing

| SBS® ORDERING INFORMATION |

SBS®50 Standard Housings

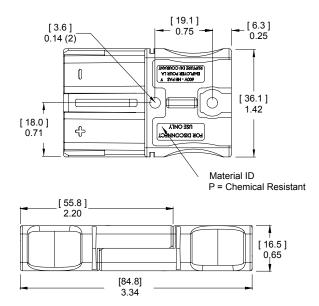
Polycarbonate housings feature 2 positions all finger proof. Genderless design mates with itself. Mechanical keys are color coded.

	Voltage Color		
Description	Code	Part Numl	bers
Minimum Qu	antity	500	50
Red	24V	SBS50RED-BK	SBS50RED
Gray	36V	SBS50GRA-BK	SBS50GRA
Blue	48V	SBS50BLU-BK	SBS50BLU
Black	80V	SBS50BLK-BK	SBS50BLK
Brown	96V	SBS50BRN-BK	SBS50BRN
White	192V	SBS50WHT-BK	SBS50WHT

SBS®50 Chemical Resistant (CR) Housings

Same features as the standard housings, but molded out of a chemical resistant PBT/ PC blend. Suitable for use to -40°C.

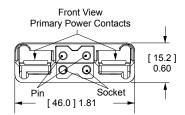
Description	Voltage Color Code	Part Num	nbers
Minimum Qu	antity	500	50
Red	24V	PSBS50RED-BK	PSBS50RED
Gray	36V	PSBS50GRA-BK	PSBS50GRA
Blue	48V	PSBS50BLU-BK	PSBS50BLU
Green	72V	PSBS50GRN-BK	PSBS50GRN
Black	80V	PSBS50BLK-BK	PSBS50BLK
Brown	96V	PSBS50BRN-BK	PSBS50BRN



SBS®75X Standard Housings

Polycarbonate housings feature 4 auxiliary and 2 primary positions all finger proof. Genderless design mates with itself, or the PCB connector. Mechanical keys are color coded.

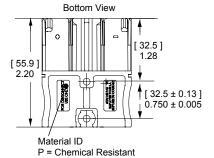
	Voltage Color		
Description	Code	Part Num	nbers
Minimum Qu	antity	250	50
Black	80V	SBS75XBLK-BK	SBS75XBLK
Brown	96V	SBS75XBRN-BK	SBS75XBRN

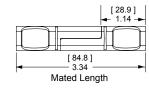


SBS®75X Chemical Resistant (CR) Housings

Same features as the standard housings, but molded out of a chemical resistant PBT/ PC blend. Suitable for use to -40° C.

	Voltage			
	Color			
Description	Code	Part Num	nbers	-
Minimum Qu	antity	250	50	
Green	72V	PSBS75XGRN-BK	PSBS75XGRN	1
Black	80V	PSBS75XBLK-BK	PSBS75XBLK	

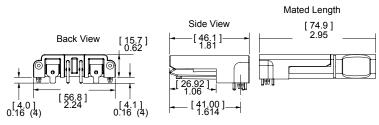




SBS®75X Assembled PCB Connector

Fully assembled PCB connector is designed to mate with SBS®75X Wire connector. All positions are preloaded with contacts including standard mating length auxiliary positions. Press fit board locks help secure the connector to the PCB before and after soldering.

	Voltage	
	Color	
Description	Code	Part Number
Minimum Qu	antity	100
Black	80V	SBS75XPRBLK-BK



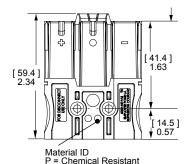
See PCB connector drawing on website for further detail.

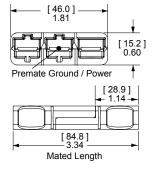


SBS®75G Wire Housings

Polycarbonate housings feature three finger proof positions. The center position can be used for pre-mate power or ground. Genderless design mates with itself, or the PCB connector. Mechanical keys are color coded. Inquire with customer service for chemical resistant housings.

	Voltage		
	Color		
Description	Code	Part Num	bers
Minimum Qu	antity	250	50
Blue	48V	SBS75GBLU-BK	SBS75GBLU
Black	80V	SBS75GBLK-BK	SBS75GBLK
Brown	96V	SBS75GBRN-BK	SBS75GBRN
White	192V	SBS75GWHT-BK	SBS75GWHT





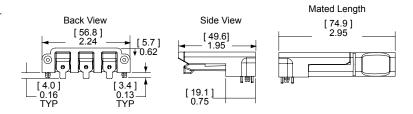


SBS®75G Assembled PCB Connector

Fully assembled PCB connector is designed to mate with SBS®75G Wire connector. Has press fit board locks to help secure the connector to the PCB before and after soldering.

	Voltage	
	Color	
Description	Code	Part Number
Minimum Qu	antity	100
Black	80V	SBS75GPRBLK-BK

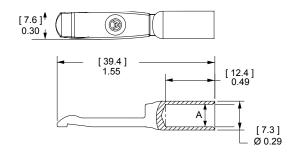
See PCB connector drawing on website for further detail.



SBS® Silver Plated Primary Power Wire Contacts

Use two silver plated contacts per housing for the best electrical performance and durability up to 10,000 mating cycles. Standard contacts are for use in all primary power positions for SBS® 50, 75X, & 75G wire housings. See reducing bushings in accessory section for smaller wires. See reducing busings in accessory section for smaller wires.

					Dimer	nsions
			Loose P	iece	- ,	A -
Type	AWG	mm²	Part Nur	mbers	inches	s mm
Minimum (Quantity		1,000	100		
Standard	6	16	1339G2-BK	1339G2*	0.22	5.59
Standard	8	10	1339G5-BK	1339G5*	0.19	4.83
Standard	12 to 10	2.5 to 6	1339G3-BK	1339G3*	0.14	3.56
* Are sold	as pairs. 2	contacts s	ship for every 1	ordered.		

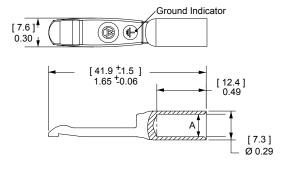


NEW

SBS®75G Silver Plated Pre-Mate Wire Contacts

Pre-Mate contacts are for the center Pre-Mate position on the SBS®75G wire housings. See reducing bushings in accessory section for smaller wires.

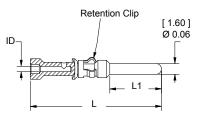
					Dimer	nsions
			Loose P	iece	- <i>F</i>	۸ -
Туре	AWG	mm²	Part Nur	nbers	inches	s mm
Minimum	Quantity		500	50		
Pre-Mate	6	16	1340G1-BK	1340G1	0.22	5.59
Pre-Mate	8	10	1340G2-BK	1340G2	0.19	4.83
Pre-Mate	12 to 10	2.5 to 6	1340G3-BK	1340G3	0.14	3.56



Pin Contacts for SBS®75X Auxiliary

Gold plated contacts are available in 3 lengths to allow sequencing of circuits.

Description	AWG	mm²	Part	Numbers
Minimum Quantity			500	50
Standard Length 7.7mm	12	2.5	PM16P12S30	PM16P12S30-50
	16 to 14	1.0 to 1.5	PM16P1416S30	PM16P1416S30-50
	20 to 16	0.75 to 1.0	PM16P1620S30	PM16P1620S30-50
	24 to 20	0.50 to 0.75	PM16P2024S30	PM16P2024S30-50
Pre-Mate 9.3mm	12	2.5	PM16P12A30	PM16P12A30-50
	16 to 14	1.0 to 1.5	PM16P1416A30	PM16P1416A30-50
	20 to 16	0.75 to 1.0	PM16P1620A30	PM16P1620A30-50
	24 to 20	0.50 to 0.75	PM16P2024A30	PM16P2024A30-50
Post-Mate 6.4mm	12	2.5	PM16P12C30	PM16P12C30-50
	16 to 14	1.0 to 1.5	PM16P1416C30	PM16P1416C30-50
	20 to 16	0.75 to 1.0	PM16P1620C30	PM16P1620C30-50
	24 to 20	0.50 to 0.75	PM16P2024C30	PM16P2024C30-50

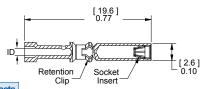


Auxiliary Pin	- L -		- L1 -	
Contact Lengths	in.	mm	in.	mm
Standard Length 7.7mm	0.77	19.6	0.30	7.7
Pre-Mate 9.3mm	0.83	21.2	0.37	9.3
Post-Mate 6.4mm	0.72	18.3	0.25	6.4

Socket Contacts for SBS®75X Auxiliary

Selectively gold plated contacts offer low resistance and durability up to 10,000 mating cycles.

Description	AWG	mm²	Pa	art Numbers
Minimum Quanti	ity		500	50
Socket Contact	12	2.5	PM16S12S32	PM16S12S32-50
	16 to 14	1.0 to 1.5	PM16S1416S32	PM16S1416S32-50
	20 to 16	0.75 to 1.0	PM16S1620S32	PM16S1620S32-50
	24 to 20	0.50 to 0.75	PM16S2024S32	PM16S2024S32-50



Auxiliary Socket Contacts Crimp Barrel ID					
Wire Gauge in. mm.					
#24 / 20	0.04	1.1			
#20 / 16	0.07	1.7			
#16 / 14	0.08	2.1			
#12	0.10	2.6			

| SBS® CONNECTOR SPECIFICATIONS |

Electrical		
Current Rating Amperes ¹	UL 1977	CSA/TUV
Primary Power (6 AWG)	110	75
Auxiliary (12 AWG)	20	10
Voltage Rating AC/DC		
UI 1977	600	
GE 1077	000	
Dielectric Withstanding Voltage		
Volts AC	2,200	
76.167.16	_,	
Avg. Mated Contact Resistance Milliohms	1	
Power & Ground: 1 1/4" of #6 AWG wire	0.200	
Auxiliary: Wire & PCB	3.000	
III Hat Blood Command Bathers Assessed Office	.	400V DO
UL Hot Plug Current Rating Amperes - 250	•	120V DC
Wire & PCB Power	50A	
Wire & PCB Auxiliary	5A	
UL Ground Short Time Current Test - SBS	75G Wire &	РСВ
1530 Amps, #6 AWG Wire	6 seconds	;

Materials	
Housing Standard Plastic Resin Chem. Resistant Resin Contact Retention Spring	Polycarbonate Polycarbonate / PBT blend Stainless Steel
Housing Flammability Rating UL94	V-0
Wire Power & Ground Contact	Silver Plated Copper Alloy
PCB Power & Ground Contact	Tin Plated Copper Alloy
SBS75X Auxiliary Contacts	
Pin	Copper alloy, Au over Ni
Socket	BeCu, Au over Ni
Socket Body	Copper alloy, Sn bright over Ni
Retention Clip	Stainless Steel
PCB Press Fit Retainers	Brass - Tin Plated
Contact Termination Methods	
Crimp ³	Wire Contacts
Hand Solder	Wire and PCB Contacts
Solder Dip	PCB Contacts
Wave Solder	PCB Contacts

Wire Size Range AWG mm² Power Contacts (with bushings) 16 to 6 1.3 to 13.3 Auxiliary Contacts 24 to 12 0.25 to 3.3 Max. Wire Insulation Diameter in. mm SBS*975G Power & Ground 0.380 9.652 SBS*975 Power Contacts 0.410 10.414 SBS*975X Auxiliary Contacts 0.140 3.600 Operating Temperature² °F °C Standard -4° to 221° -20° to 105° Chemical Resistant -40 to 221° -40° to 105° Mating Cycles No Load by Plating Silver (Ag) Tin (Sn) Gold (Au) Power & Ground Contacts Wire 10,000 1,500 10,000 Avg. Mating / Unmating Force Lbf. N N SBS*75X and SBS*75G Wire to Wire 8 36 36 SBS*75X and SBS*75G Wire to Wire to Wire 8 36 36 Min. Contact / Spring Retention Force Lbf. N N Power, Standard Housing 50 2222 222 Power, Chem. Resist				
Power Contacts (with bushings)	Mechanical			
Auxiliary Contacts 24 to 12 0.25 to 3.3 Max. Wire Insulation Diameter in. mm SBS*75G Power & Ground 0.380 9.652 SBS*650 & SBS*75X Power Contacts 0.410 10.414 SBS*75X Auxiliary Contacts 0.140 3.600 Operating Temperature² °F °C Standard -4° to 221° -20° to 105° Chemical Resistant -40 to 221° -40° to 105° Mating Cycles No Load by Plating Silver (Ag) Tin (Sn) Gold (Au) Power & Ground Contacts Wire 10,000 1,500 400 Auxiliary Contacts Lbf. N N SBS*75X and SBS*75G Wire to Wire 16 70 N SBS*50 Wire to Wire 8 36 N SBS*75X and SBS*75G Wire to PCB 8 36 Min. Contact / Spring Retention Force Lbf. N Power, Standard Housing 50 2222 Power, Chem. Resistant Housing 15 67 Aux. Standard Housing 15 67	Wire Size Range	AWG	mm²	
Max. Wire Insulation Diameter in. mm SBS*75G Power & Ground 0.380 9.652 SBS*50 & SBS*75X Power Contacts 0.410 10.414 SBS*75X Auxiliary Contacts 0.140 3.600 Operating Temperature² °F °C Standard -4° to 221° -20° to 105° Chemical Resistant -40 to 221° -40° to 105° Mating Cycles No Load by Plating Silver (Ag) Tin (Sn) Gold (Au) Power & Ground Contacts Wire 10,000 1,500 10,000 Avg. Mating / Unmating Force Lbf. N SBS*75X and SBS*75G Wire to Wire 16 70 SBS*50 Wire to Wire 8 36 SBS*75X and SBS*75G Wire to PCB 8 36 Min. Contact / Spring Retention Force Lbf. N Power, Standard Housing 50 222 Power, Chem. Resistant Housing 15 67 Aux. Chem. Resistant Housing 15 67 Aux. Chem. Resistant Housing	Power Contacts (with bushings)	16 to 6	1.3 to 13.3	
SBS®75G Power & Ground 0.380 9.652 SBS®50 & SBS®75X Power Contacts 0.410 10.414 SBS®75X Auxiliary Contacts 0.140 3.600 Operating Temperature² °F °C Standard -4° to 221° -20° to 105° Chemical Resistant -40 to 221° -40° to 105° Mating Cycles No Load by Plating Silver (Ag) Tin (Sn) Gold (Au) Power & Ground Contacts Wire 10,000 1,500 10,000 Avg. Mating / Unmating Force Lbf. N N SBS®75X and SBS®75G Wire to Wire 16 70 70 SBS®50 Wire to Wire 8 36 36 SBS®75X and SBS®75G Wire to PCB 8 36 Min. Contact / Spring Retention Force Lbf. N Power, Standard Housing 50 222 Power, Chem. Resistant Housing 15 67 Aux. Chem. Resistant Housing 15 67 Aux. Chem. Resistant Housing 10 44 PCB Specifications	Auxiliary Contacts	24 to 12	0.25 to 3.3	
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Operating Temperature ² Standard Chemical Resistant Mating Cycles No Load by Plating Power & Ground Contacts Wire Power & Ground Contacts PCB Auxiliary Contacts Mating / Unmating Force SBS*75X and SBS*75G Wire to Wire SBS*50 Wire to Wire Power, Standard Housing Power, Chem. Resistant Housing Aux. Standard Housing Aux. Chem. Resistant Housing Aux. Chem. Resistant Housing Mounting Style Max PCB Thickness- in. [mm] Recommended Traces Power & Ground Recommended Traces Poss*75X Power to Aux. Creepage SBS*75X Power to Ground Creepage SBS*75G Aux. Chem forcum Creepage SBS*75G Power to Ground Clearance SBS*75G Aux. Chem Ground Creepage SBS*75G Power to Ground Clearance SBS*75G Aux. Chem Ground Creepage SBS*75G Auxiliary Creepage SBS*75X	SBS®50 & SBS®75X Power Contacts	0.410	10.414	
Standard	SBS®75X Auxiliary Contacts	0.140	3.600	
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Chemical Resistant -40 to 221° -40° to 105° Mating Cycles No Load by Plating Power & Ground Contacts Wire Power & Ground Contacts PCB Auxiliary Contacts Silver (Ag) Tin (Sn) Gold (Au) Avg. Mating / Unmating Force SBS®75X and SBS®75G Wire to Wire SBS®75X and SBS®75G Wire to Wire 8 36 SBS®75X and SBS®75G Wire to PCB 8 36 N Min. Contact / Spring Retention Force Power, Standard Housing Power, Chem. Resistant Housing Standard Housing Shaux. Standard Housing Standard Housing Style Power, Chem. Resistant Housing Style Plated Through Hole One Specifications Mounting Style Plated Through Hole One Specifications Mounting Style Plated Through Hole Specifications Power & Ground Recommended Traces Power & Ground #6 AWG Cross Section Min. Creepage / Clearance Distance PCB Spower to Aux. Creepage SBS®75X O.41 10.4 Power to Aux. Creepage SBS®75X O.41 10.4 Power to Ground Creepage SBS®75X O.24 6.1 Power to Ground Clearance SBS®75G O.26 6.7 Auxiliary Creepage SBS®75X O.12 3.0		-	-	
Mating Cycles No Load by Plating Power & Ground Contacts Wire Power & Ground Contacts PCB Auxiliary Contacts Avg. Mating / Unmating Force SBS®75X and SBS®75G Wire to Wire SBS®75X and SBS®75G Wire to PCB SBS®75X and SBS®75G Ure to PCB SBS®75X and SBS®75X SBS®75X BSS®75X SBSS®75G URE TO SBSS®75G URE TO SBSS®75X URE TO SBSSS®75X URE TO SBSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	Standard			
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Power & Ground Contacts Wire 10,000 Power & Ground Contacts PCB 1,500 Auxiliary Contacts 10,000 Avg. Mating / Unmating Force Lbf. N SBS®75X and SBS®75G Wire to Wire 16 70 SBS®50 Wire to Wire 8 36 SBS®75X and SBS®75G Wire to PCB 8 36 Min. Contact / Spring Retention Force Lbf. N Power, Standard Housing 50 222 Power, Chem. Resistant Housing 30 133 Aux. Standard Housing 15 67 Aux. Chem. Resistant Housing 10 44 PCB Specifications Mounting Style Plated Through Hole Max PCB Thickness- in. [mm] 0.093 [2.4] #6 AWG Cross Section Recommended Traces Power & Ground #6 AWG Cross Section Min. Creepage / Clearance Distance PCB in. mm Power to Aux. Creepage SBS®75X 0.41 10.4 Power to Ground Creepage SBS®75G 0.35 8.9 Power to Ground Clearance SBS®75G 0.26 6.7 Auxiliary	Mating Cycles No Load by Plating	Silver (Aa)	Tin (Sn)	Gold (Au)
Power & Ground Contacts PCB		,	1111 (311)	Goid (Au)
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Avg. Mating / Unmating Force Lbf. N SBS®75X and SBS®75G Wire to Wire 16 70 SBS®50 Wire to Wire 8 36 SBS®75X and SBS®75G Wire to PCB 8 36 Min. Contact / Spring Retention Force Lbf. N Power, Standard Housing 50 222 Power, Chem. Resistant Housing 30 133 Aux. Standard Housing 15 67 Aux. Chem. Resistant Housing 10 44 PCB Specifications Mounting Style Plated Through Hole Max PCB Thickness- in. [mm] 0.093 [2.4] Recommended Traces Power & Ground #6 AWG Cross Section Recommended Traces Auxiliary #12 AWG Cross Section Min. Creepage / Clearance Distance PCB in. mm Power to Aux. Creepage SBS®75X 0.41 10.4 Power to Ground Creepage SBS®75G 0.35 8.9 Power to Ground Clearance SBS®75G 0.26 6.7 Auxiliary Creepage SBS®75X 0.12 3.0			1,000	10 000
SBS®75X and SBS®75G Wire to Wire 16 70 SBS®50 Wire to Wire 8 36 SBS®75X and SBS®75G Wire to PCB 8 36 Min. Contact / Spring Retention Force Lbf. N Power, Standard Housing 50 222 Power, Chem. Resistant Housing 30 133 Aux. Standard Housing 15 67 Aux. Chem. Resistant Housing 10 44 PCB Specifications Mounting Style Plated Through Hole Max PCB Thickness- in. [mm] 0.093 [2.4] Recommended Traces Power & Ground #6 AWG Cross Section Recommended Traces Auxiliary #12 AWG Cross Section Min. Creepage / Clearance Distance PCB in. mm Power to Aux. Creepage SBS®75X 0.41 10.4 Power to Ground Creepage SBS®75G 0.35 8.9 Power to Ground Clearance SBS®75G 0.26 6.7 Auxiliary Creepage SBS®75X 0.12 3.0	Advincis Contacts			10,000
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Min. Contact / Spring Retention Force Lbf. N Power, Standard Housing 50 222 Power, Chem. Resistant Housing 30 133 Aux. Standard Housing 15 67 Aux. Chem. Resistant Housing 10 44 PCB Specifications Mounting Style Plated Through Hole Max PCB Thickness- in. [mm] 0.093 [2.4] Recommended Traces Power & Ground #6 AWG Cross Section Recommended Traces Auxiliary #12 AWG Cross Section Min. Creepage / Clearance Distance PCB in. mm Power to Aux. Creepage SBS*75X 0.41 10.4 Power to Aux. Clearance SBS*75X 0.24 6.1 Power to Ground Creepage SBS*75G 0.35 8.9 Power to Ground Clearance SBS*75X 0.26 6.7 Auxiliary Creepage SBS*75X 0.12 3.0	SBS®50 Wire to Wire	8	36	
Power, Standard Housing 50 222 Power, Chem. Resistant Housing 30 133 Aux. Standard Housing 15 67 Aux. Chem. Resistant Housing 10 44 PCB Specifications Mounting Style Plated Through Hole Max PCB Thickness- in. [mm] 0.093 [2.4] Recommended Traces Power & Ground #6 AWG Cross Section Recommended Traces Auxiliary #12 AWG Cross Section Min. Creepage / Clearance Distance PCB in. mm Power to Aux. Creepage SBS®75X 0.41 10.4 Power to Aux. Clearance SBS®75X 0.24 6.1 Power to Ground Creepage SBS®75G 0.35 8.9 Power to Ground Clearance SBS®75X 0.26 6.7 Auxiliary Creepage SBS®75X 0.12 3.0	SBS®75X and SBS®75G Wire to PCB	8	36	
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Power to Ground Clearance SBS®75G 0.26 6.7 Auxiliary Creepage SBS®75X 0.12 3.0	Power to Aux. Clearance SBS®75X	0.24	6.1	
Auxiliary Creepage SBS®75X 0.12 3.0	Power to Ground Creepage SBS®75G	0.35	8.9	
, ,	Power to Ground Clearance SBS®75G	0.26	6.7	
Auxiliary Clearance SBS®75X 0.12 3.0	Auxiliary Creepage SBS®75X	0.12	3.0	
	Auxiliary Clearance SBS®75X	0.12	3.0	

Protection

Touch Safety with Wire Contacts & PCB Mating Interface

IEC 60950 Pass IEC 60529 IP20

Auxiliary contacts are available for SBS $\hspace{-0.08cm}^{\hspace{-0.08cm} \text{@}} 75 \text{X}$ only.

 $SBS °75X \ and \ SBS °75G \ PCB \ connectors \ are \ designed \ to \ mate \ only \ with \ the \ wire \ connector \ of \ the \ same \ series.$

- ¹ Based on: 105°C rated or better cable of the largest size, Properly calibrated APP® recommended tooling, and a 25°C ambient temperature. UL rating not to exceed the maximum operating temperature. CSA rating below a 30°C temperature rise.
- ² Limited by the thermal properties of the connector plastic housing.
- ³ Use APP® recommended tooling only. Alternate tools may adversely affect the performance of our connectors along with UL and CSA recognition.





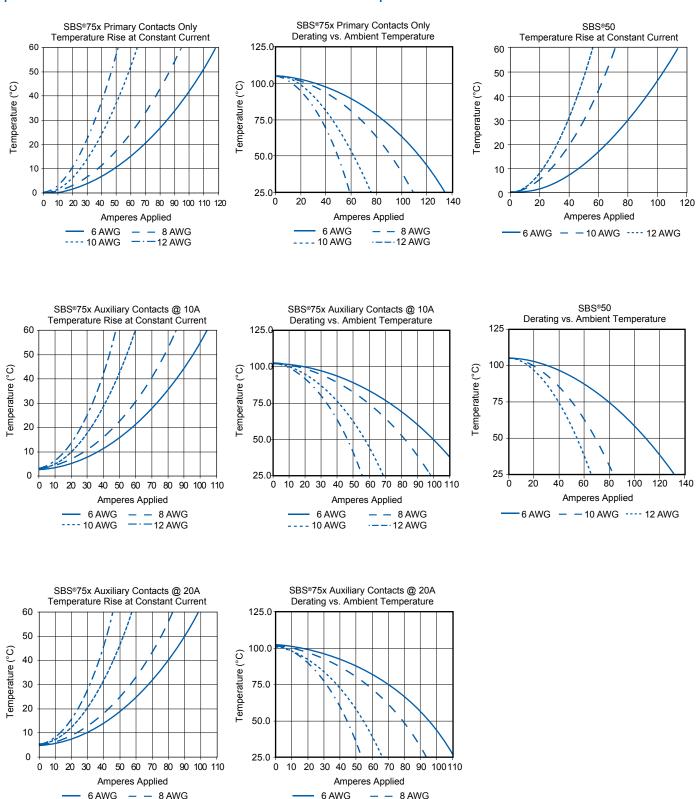






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| SBS® CONNECTOR TEMPERATURE CHARTS |

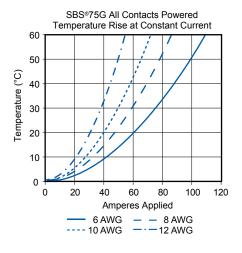


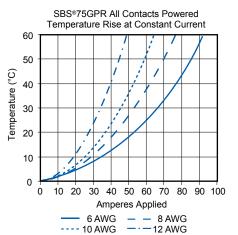
NOTE: Temperature rise charts are based on a 25°C ambient temperature.

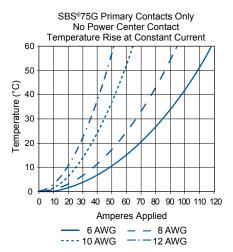
---- 10 AWG ---- 12 AWG

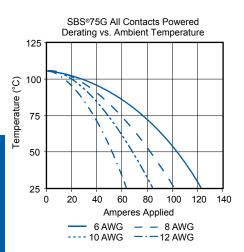
---- 10 AWG

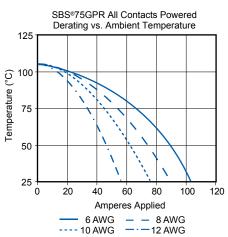
·--· 12 AWG

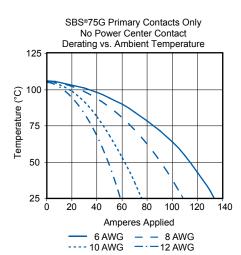












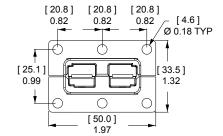
NOTE: Temperature rise charts are based on 25 °C ambient temperature.

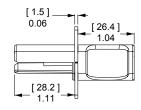
SBS® Accessories |

Mounting Clamp for SBS®50

Mounting clamps can be used for fastening a SBS $^{\!0}50$ series housings to a panel. Fastening hardware not included.

Description	Part Number	
Minimum Quantity	20 sets of 2	
Panel Mount Bracket for SBS®50	1466G1	

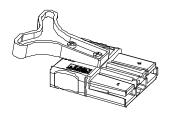




T-Handle for SBS®50 and SBS®75X

The "T" handle makes mating and unmating the connector easier. The non-conductive red plastic material is strong and safe. (2) Self tapping screws are used to secure the handle to the connector housing.

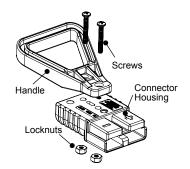
Description	Part Numbers		
Minimum Quantity	1,000	50	
Red "T" Handle + Hardware Bag	-	SBS50-HDL-RED	
Hardware Bag (2 Screws)	-	104G17	
Red "T" Handle Only	113899P1	-	
#8 x 5/8" Screw (Order 2 Per Handle)	H1120P53	-	



"A" frame handle for SBS®50 and SBS®75X

Handle makes mating and unmating the connector easier. The non-conductive gray plastic material is strong and safe. Machine screws and locknuts included.

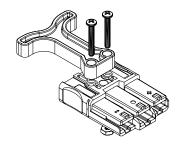
Description	- Part Number -		
Minimum Quantity	200		
Gray "A" Handle & Hardware	997G1		



T-Handle for SBS®75G

The "T" handle makes mating and unmating the connector easier. The non-conductive red plastic material is strong and safe. (2) Machine screws and lock nuts.

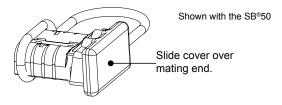
Description	- Part Number -
Minimum Quantity	50
Red "T" Handle + Hardware Bag	SBS75GHDLRED



Dust Cover SBS®50

Prevents dust and dirt from entering the mating interface of the connector when unmated. NOTE: Not a Hermetic Seal.

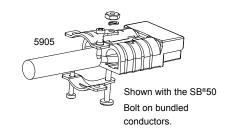
Description	Part Nui	mber
Minimum Quantity	. 500	50
Dust Cover with Lanyard Strap, Red	113890P1	134G1

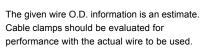


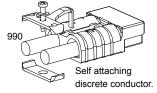
Cable Clamps for SBS®50

Durable metal cable clamps securely hold cables to prevent accidental strain or pulls from dislodging wire or contacts from the housing. Cable clamps are recommended for solder terminated wires.

	Cable Size			
	AWG or	mm ² or		
Description	(Inches O.D.)	(mm O.D.)	Part Nu	mbers
Minimum Quantity			500	50
Self Attaching for Discrete Conductor	8 to 6	10	990-BK	990
Self Attaching for Discrete Conductor	12 to 10	2.5 to 4	990G2-BK	990G2
Bolt On for Discrete Conductor	12 to 6	2.5 to 10	990G1-BK	990G1
Bolt On for Bundled Conductor	(0.320 to 0.450)	(4.27 to 11.43)	5905-BK	5905



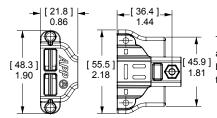




Cable Clamps for SBS®75X with Integral Handle

Rugged chemical resistant PBT/ PC plastic cable clamps securely hold cables to prevent accidental strain or pulls from dislodging wire or contacts from the housing. Cable clamps are recommended for solder terminated wires.

	Cable Size AWG or	mm² or		
Description	(Inches O.D.)	(mm O.D.)	Part Num	bers
Minimum Quantity			100	25
Large Wire Clamp Kit w/ Hardware	12 to 6 (0.39 to 0.60)	4 to 10 (9.9 to 15.2)	PSBS75XCLP1-BK	PSBS75XCLP1
Small Wire Clamp Kit w/ Hardware	12 to 6 (0.34 to 0.55)	4 to 10 (8.6 to 14.0)	PSBS75XCI P2-BK	PSBS75XCLP2



The given wire O.D. information is an estimate. Cable clamps should [45.9] be evaluated for performance with the actual wire to be used.

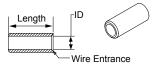
Clamp hardware requires phillips or flat blade

screwdriver to assemble.

Reducing Bushings

Use with contact part number 1339G2-BK or 1340G1-BK to allow a smaller wire to be used with the connector. Electrical capability is derated with smaller wire.

		Dimensions						
					- 1	ID -	- Len	gth -
Contact Barrel Size	Wire Size	Par	t Numbers		inches	mm	inches	mm
Minimum Quantity		3,000	1,000	100				
#6 AWG [13.3 mm ²]	#8 AWG [8.4 mm²]	-	5912-BK	5912	0.18	4.57	0.45	11.43
#6 AWG [13.3 mm ²]	#12- 10 AWG [3.3- 5.3 mm ²]	5910-BK	-	5910	0.14	3.56	0.47	11.94
#6 AWG [13.3 mm ²]	#16- 14 AWG [1.3- 2.1 mm ²]	5913-BK	-	5913	0.09	2.29	0.47	11.94



SBS®

- Tooling Information

Wire Size		Power / Ground Contacts							
AWG	mm²	Power Contact Part Number	Pneumatic Bench Tool	Die	+ Locator	Number of Crimps	or Hand Tool		
#6	13.3	1339G2	- 1387G1	1388G6	1389G9	Single	1309G4		
#8	8.4	1339G5							
#10 / 12	5.3 / 3.3	1339G3		1388G7					
#6	13.3	1340G1		1388G6					
#8	8.4	1340G2			1389G20				
#10 / 12	5.3 / 3.3	1340G3		1388G7					

Wire Size		SBS®75X Auxiliary Contacts								
AWG	mm²	Auxiliary Contact Part Number	APP Hand Tool w/ Integral Locator		Pneumatic or Tool*	Number of Crimps	Locator for: TM0001 & + TP0001			
#12 / 24	2.5 / 0.25	All Crimp Pins	PM1000G1	TM0001	TP0001	Single	TL0001			
#12724	2.57 0.25	All Crimp Sockets	FINITOOOGT	TIVIOUUT	170001	Sirigie	TL0002			

* TP0001 and TM0001 tools require locators TL0001 for Pins and TL0002 for Sockets. NOTE: See website for the most current information.

SBS®75X Auxiliary Contact Insertin Tool: 111038G3 SBS®75X Auxiliary Contact Extraction Tool: PM1003G1

The auxiliary contacts used with wire sizes #16 - #24 AWG cannot be properly inserted without the insertion tool. Properly installed auxiliary contact of all wire gauges cannot be removed from the hosing without the extraction tool.